

Information and Knowledge Acquisition → The Feedback Loops

- Patient Dialogue Engine: Individualized Communication
 - Generated using Information and Knowledge Base
 - Interface with Rendering Engine
 - Feedback to Information Base
- Care Management Engine: Just-in-time Care
 - Generated using Information and Knowledge Base
 - Feedback to DSTs
- Research Engine: Real-time Research
 - Interface to Information Base [extract existing data]
 - Interface to Dialogue Engine [when new data is required]
 - Feedback to Knowledge Base [new discoveries]

FIG. 24

Health Hero Network Contribution to Innovations

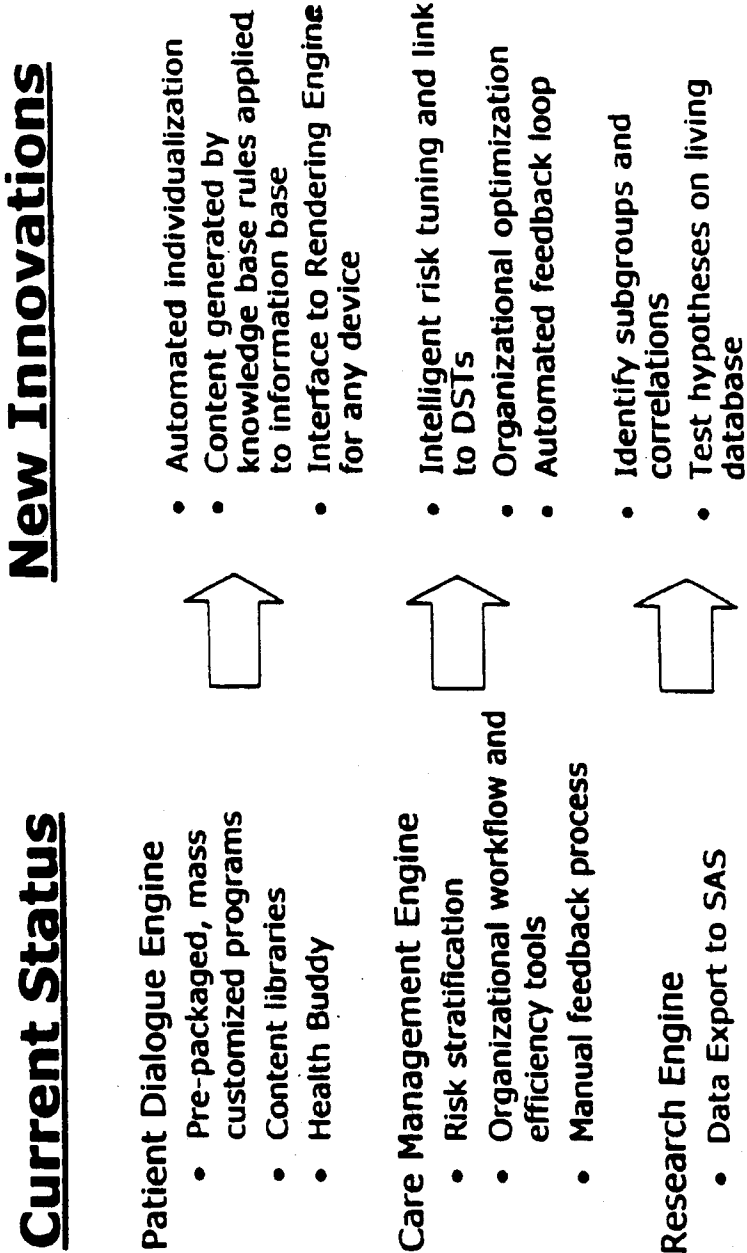
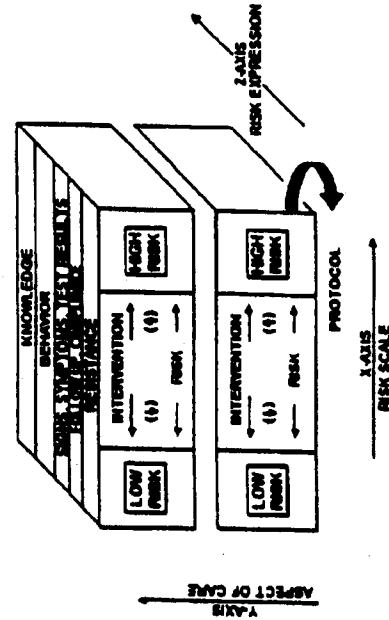


FIG. 25

Integrating Feedback Loops Within MedKnowledgeMent

- Application Program Interfaces
- Standards for Data Classification
- Ontology for Information and Knowledge Used in Feedback Process



A 3-DIMENSIONAL MODEL OF DISEASE

FIG. 26

Feedback Process

Overall goal is apply and generate medical knowledge in a continuous process that leads to lowest achievable risk resulting in:

- Higher quality of life
- Improved clinical outcomes
- Lower cost of care

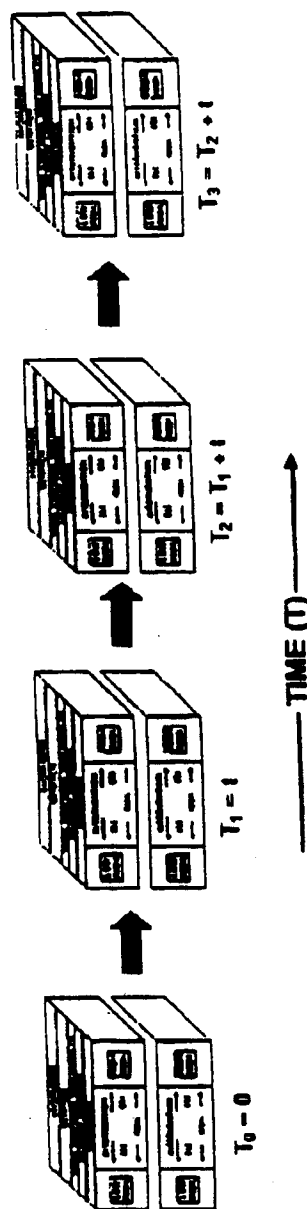


FIG. 27

Expected Results

- Reduced emergency department encounters and hospitalizations by detecting patient problems before they become a crisis.
- Improved patient compliance by educating, motivating and monitoring health status and by providing personalized and relevant information.
- Improved safety and quality of care by providing timely and actionable information to healthcare professionals through quality assured processes that can be continuously improved.
- Continuity of care, particularly for the elderly, through integrated, interconnected monitoring and information systems, rather than fragmented, episodic, and crisis driven care.

FIG. 28